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Cawley, J. J. Solving the Mathematics of a Kinetic and Regiochemical Problem: The Dehydration Reaction of a cis–trans Mixture of 2-Methylcycloalkanols. (RSA) January, 58–59.

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Chang, S.; Calimente, D. S.; Strand, S. M.; Lewis, D. E. The Preparation of a Fluorescent Dye: A Microscale TLC Experiment. (ML) January, 82–83.

Chapman, O. L.; Spencer, B.; Gosser, D. K. Response to The NSF "Systemic" Projects—A New Tradition Commentary by Gordon Barrow. (Commentary) February, 159–160.

Chaston, S. Thermodynamic Diagrams. February, 216–220.

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Clark, B. K.; Standard, J. M. The Franck–Condon Principle and Condon Parabolas in a Physical Chemistry or Quantum Physics Course. October, 1363–1366.

Clark, R. W. *The Physics Teacher*. (ROJ) September, 1180.

Clark, R. W. The Structure of Chemistry. (Commentary) December, 1612–1613.

Clouston, L. L.; Kleinman, M. H. The Design and Synthesis of a Large Interactive Classroom. January, 60–61.

Cobbin, D.; Goodwin, V.; Logan, P. Examination of the Occupational Health and Safety Initiatives Available within the Chemistry Departments of Australian Universities. (ST) September, 1226–1229.

Coetzee, J. F. The Annual James L. Waters Symposium at Pittcon—Preamble. (Waters) June, 767.

Cohen, B. H.; Cohen, P. S. Discovering Anaheim. (DISC) March, 311–312.

Cohen, B. H.; Cohen, P. S. Discovering New Orleans. (DISC) August, 1049–1052.

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Coichev, N.; Moya, H. D.; Neves, E. A. A Further Demonstration of Sulfite-Induced Redox Cycling of Metal Ions Initiated by Shaking. (TD) July, 930–932.

Coker, E. N.; Davis, P. J.; Kerkstra, A.; van Bekkum, H. Experiments with Zeolites at the Secondary School Level: Experience from The Netherlands. (SSC) October, 1417–1419.
Coker, E. N.; Davis, P. J.; van Bekkum, H. Properties of Zeolite A Obtained from Powdered Laundry Detergent (re *J. Chem. Educ.* **1997**, *74*, 569–570). (LTE) April, 469–470.
Collins, C. H.; Silva, C. R.; Simoni, J. A.; Volpe, P. L. Ascorbic Acid as a Standard for Iodometric Titrations. An Analytical Experiment for General Chemistry. October, 1421–1422.
Commereuc, S. Basic Rheology of Polymer Melts. An Introductory Polymer Science Experiment. November, 1528–1532.
Compton, R. N.; Maharin, S. M.; Zare, R. N. Demonstration of Optical Rotatory Dispersion of Sucrose. (ACL) September, 1234–1236.
Comstock, M. G.; Gray, J. A. Raman Spectroscopy of Symmetric Oxyanions. September, 1272–1275.
Condren, S. M.; Nordell, K. J.; Lisensky, G. C.; Ellis, A. B. Liver and Onions: DNA Extraction from Animal and Plant Tissues. (JCE Activity) March, 400A–400B.
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Cooke, J. B.; Smith, C. W.; Glinski, R. J. Survey of Binary Azeotropes as Lab Experiments with Attention to Cost, Safety, and the Environment. February, 227–228.
Cooley, J. H.; Williams, R. V. Qualitative Analysis in the Beginning Organic Laboratory. August, 1117–1120.
Copper, C. L.; Koubek, E. An Experiment to Demonstrate How a Catalyst Affects the Rate of a Reaction. December, 1714–1715.
Corio, P. L. Chemical Kinetics in Constant-Pressure Systems. October, 1452–1457.
Corkern, W. H.; Hughes, E. The Methane Balloon. (TD) June, 794.
Cornely, K.; Baer, C. Spectroscopy of Simple Molecules. January, 89–90.
Cornely, K.; Crespo, E.; Earley, M.; Kloter, R.; Levesque, A.; Pickering, M. Kinetics of Papain: An Introductory Biochemistry Laboratory Experiment. May, 644–645.
Cortés-Figueroa, J. E.; Moore, D. A. Using CBL Technology and a Graphing Calculator To Teach the Kinetics of Consecutive First-Order Reactions. (TECH) May, 635–638.
Cortón, E.; Kocmur, S.; Haim, L.; Locascio, G.; Galagovsky, L. CO_2—Potentiometric Determination and Electrode Construction, a Hands-on Approach. September, 1253–1255.
Costa, J. L.; Guerrero, A. H.; Fasoli, H. J. Why Gold and Copper Are Colored but Silver Is Not. February, 200.
Costa, S.; Silva, A. L.; Fernandes, C.; Wasterlain, O.; Mendes, A. M. Cut-Out Molecular Models (re *J. Chem. Educ.* **1997**, *74*, 791–792). (LTE) January, 28–29.
Craig, N. C. The Joys and Trials of Doing Research with Undergraduates. (Commentary) May, 595–598.
Craig, P. A. A Project-Oriented Biochemistry Laboratory Course. August, 1130–1135.
Craig, R. A.; Bigger, S. W. MacMS: A Mass Spectrometer Simulator: Abstract of Issue 9906M. (JCE Software) October, 1464.
Crane, J.; Myers, D. R. Re-Blue-ing Blue Litmus Paper (re *J. Chem. Educ.* **1998**, *75*, 183). (LTE) March, 319.
Creary, X.; Morris, K. M. A New Twist on the Iodine Clock Reaction: Determining the Order of a Reaction. (OPD) April, 530–531.
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Crundwell, G.; Phan, J.; Kantardjieff, K. A. The Incorporation of a Single-Crystal X-ray Diffraction Experiment into the Undergraduate Physical Chemistry Laboratory. September, 1242–1245.
Csernica, J.; Brown, A. Effect of Plasticizers on the Properties of Polystyrene Films. November, 1526–1528.
Cunha, A. C.; Pereira, L. O.; de Souza, M. C.; Ferreira, V. F. Use of Protecting Groups in Carbohydrate Chemistry: An Advanced Organic Synthesis Experiment. January, 79–80.
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Cuthbert, H. L.; Rothstein, S. M. Quantum Chemistry without Wave Functions: Diffusion Monte Carlo Applied to H and H_2^+. October, 1378–1379.
Cutler, A.; Apple, T. The Rensselaer Studio General Chemistry Course. (NSF) April, 462–463.
Cvitaš, T. A New Look at Reaction Rates. November, 1574–1577.

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DasSarma, B. Chemistry. April, 498.
David, C. W. Revisiting Woodward–Hoffmann Rules. July, 999–1001.
Davis, D. J. *See* Poon, T. November, 1523–1524.
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de Levie, R. A General Simulator for Acid–Base Titrations. July, 987–991.
de Levie, R. Gouy, Debye–Hückel, and Fick: Understanding Differential Equations without Solving Them. January, 129–132.
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de Vos, W. Using Large Glass Cylinders To Demonstrate Chemical Reactions. (TD) April, 528–530.
de Vos, W.; Van Driel, J. H.; Verloop, N. Introducing Dynamic Equilibrium as an Explanatory Model. April, 559–561.
Deal, S. T.; Mullis, T. C.; Winge, J. T. An Alternative Procedure for the Glucose Oxidase Assay of Glucose as Applied to the Lactase Activity Assay. December, 1711.
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Debattista, N. B.; Barufaldi, M.; Pappano, N. B. Quantitative Protein Determination from Cellulose Acetate Strip Electrophoresis. July, 965–966.
DeKock, R. L. Potential Energy Sufficient for Atoms (re *J. Chem. Educ.* **1998**, *75*, 537–539). (LTE) May, 605–606.
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DeLorenzo, R. When Hell Freezes Over: An Approach To Develop Student Interest and Communication Skills. April, 503.
Demay, S.; Martin-Girardeau, A.; Gonnord, M. Capillary Electrophoretic Quantitative Analysis of Anions in Drinking Water. June, 812–815.
DeMuro, J. C.; Margarian, H.; Mkhikian, A.; No, K. H.; Peterson, A. R. An Inexpensive Microscale Method for Measuring Vapor Pressure, Associated Thermodynamic Variables, and Molecular Weight. (ML) August, 1113–1116.
Deng, T.; Acree, W. E. Selection of an Analysis Wavelength: An Interesting Example Involving Solvatochromism and the Zwitterionic Dimroth-Reichardt's Betaine ET-30 Dye. November, 1555–1556.
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Dibble, B. G. Opportunities and Issues in Research and Education: CUR Fourth April Dialogue. (CUR) July, 886–887.
Diemente, D. The Gravity of the Situation. (AA) January, 55–56.
Dobie-Galuska, A. A.; Hamilton, T. M.; Wietstock, S. M. The *o*-Phenylenediamine–Horseradish Peroxidase System: Enzyme Kinetics in the General Chemistry Laboratory. May, 642–644.
Doezema, L.; Pursell, C. J. The Electronic Absorption Spectrum of Molecular Iodine: A New Fitting Procedure for the Physical Chemistry Laboratory. June, 839–841.
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Domin, D. S. A Content Analysis of General Chemistry Laboratory Manuals for Evidence of Higher-Order Cognitive Tasks. January, 109–112.
Domin, D. S. A Review of Laboratory Instruction Styles. (CER) April, 543–547.
Dominguez-Danache, R. E.; Castro-Acuña, C. M.; Kelter, P. B.; Grundman, J. Puzzles in Chemistry and Logic. (RSA) April, 496–498.
Donato, H. Graphing Calculator Strategies for Solving Chemical Equilibrium Problems. (TECH) May, 632–634.
Doolan, P. W.; Campbell, D. J.; Beckman, K. J.; Calderon, C. E.; Moore, R. H.; Ellis, A. B.; Lisensky, G. C. Replication and Compression of Surface Structures with Polydimethylsiloxane Elastomer. April, 537–541.
Doolan, P. W.; Campbell, D. J.; Olson, J. A.; Calderon, C. E.; Mengelt, E. A.; Ellis, A. B.; Lisensky, G. C. Chemistry with Refrigerator Magnets: From Modeling of Nanoscale Characterization to Composite Fabrication. September, 1205–1211.
Dorey, R. C.; Draves, J. A.; Stanitski, C. New Quant: A Quantitative Analysis Laboratory Curriculum Using an Analyzed Complex Matrix. (NSF) June, 752.
Dorigo, A. *See* Poon, T.
Dragojlovic, V. Flame Tests Using Improvised Alcohol Burners. (TD) July, 929–930.
Dragojlovic, V. Using Overhead Projector to Simulate X-ray Diffraction Experiments. (OPD) September, 1240–1241.
Draves, J. A.; Dorey, R. C.; Stanitski, C. New Quant: A Quantitative Analysis Laboratory Curriculum Using an Analyzed Complex Matrix. (NSF) June, 752.
Driscoll, J. A. Acid Rain Demonstration (re *J. Chem. Educ.* 1997, *74*, 1424–1425). (LTE) June, 757.
Dutch, S. I. Periodic Tables of Elemental Abundance. March, 356–358.

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Earl, T. M.; France, M. B.; Alty, L. T. Synthesis of a 7-Oxanorbornene Derivative: A Two-Step Sequence Preparation for the Organic Laboratory. May, 659–660.
Earley, C. W. A Simple Demonstration for Introducing the Metric System to Introductory Chemistry Classes. September, 1215–1216.
Earley, M.; Cornely, K.; Crespo, E.; Kloter, R.; Levesque, A.; Pickering, M. Kinetics of Papain: An Introductory Biochemistry Laboratory Experiment. May, 644–645.
Ebeler, S. E.; Brenneman, C. A. Chromatographic Separations Using Solid-Phase Extraction Cartridges: Separation of Wine Phenolics. December, 1710–1711.
Edgerly, J. S.; Shachter, A. M. Campus Environmental Resource Assessment Projects for Non-Science Majors. December, 1667–1670.
Edmonson, L. J.; Lewis, D. L. Equilibrium Principles: A Game for Students. April, 502.
Egeland, R. D.; Giles, B. J.; Matsche, Z.; Reed, R. A.; Morioka, S. S.; Taber, R. L. An in Vivo ^{13}C NMR Analysis of the Anaerobic Yeast Metabolism of 1-^{13}C-Glucose. (ACL) November, 1564–1566.
Ekins, R. P. Immunoassay, DNA Analysis, and Other Ligand Binding Assay Techniques: From Electropherograms to Multiplexed, Ultrasensitive Microarrays on a Chip. (Waters) June, 769–780.
Eller, C. F. *See* Poon, T. November, 1523–1524.
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Ellervik, U.; Grundberg, H. A Microscale Vacuum Distillation Apparatus for Simple Separations. (ML) July, 986.
Ellis, A. B.; Campbell, D. J.; Beckman, K. J.; Calderon, C. E.; Doolan, P. W.; Moore, R. H.; Lisensky, G. C. Replication and Compression of Surface Structures with Polydimethylsiloxane Elastomer. April, 537–541.
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Ellis, A. B.; Enzel, P.; Adelman, N. B.; Beckman, K. J.; Campbell, D. J.; Lisensky, G. C. Preparation and Properties of an Aqueous Ferrofluid. July, 943–948.
Ellis, A. B.; Nordell, K. J.; Condren, S. M.; Lisensky, G. C. Liver and Onions: DNA Extraction from Animal and Plant Tissues. (JCE Activity) March, 400A–400B.
Ellis, A. M. Spectroscopic Selection Rules: The Role of Photon States. (ACL) September, 1291–1294.
Ellis, D. A.; Marsella, A. M.; Huang, J.; Mabury, S. A. An Undergraduate Field Experiment for Measuring Exposure to Environmental Tobacco Smoke in Indoor Environments. December, 1700–1701.
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Emry, R.; Curtright, R. D.; Markwell, J. Student Understanding of Chromatography: A Hands-On Approach. February, 249–252.
Engel, J.; Kaufman, D.; Wright, G.; Kroemer, R. "New" Compounds from Old Plastics: Recycling PET Plastics via Depolymerization. An Activity for the Undergraduate Organic Lab. November, 1525–1526.
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Engstrom, R. C.; Vitt, J. E. Effect of Sample Size on Sampling Error: An Experiment for Introductory Analytical Chemistry. January, 99–100.
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Falvo, R. E.; Mink, L. M.; Marsh, D. F. Microscale Synthesis and ^{1}H NMR Analysis of Tetraphenylporphyrins. (ML) February, 237–239.
Fancy, N.; Mehl, A. F. Examining the Rate of Renaturation for Genomic DNA Isolated from *E. coli*—An Integrated Physical Biochemistry Laboratory. May, 646–648.
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Farwell, S. O.; Burdge, J. R.; MacTaggart, D. L. Realistic Detection Limits from Confidence Bands. March, 434–439.
Fasoli, H. J.; Guerrero, A. H.; Costa, J. L. Why Gold and Copper Are Colored but Silver Is Not. February, 200.
Fastow, M.; Zoller, U.; Lubezky, A.; Tsaparlis, G. Students' Self-Assessment in Chemistry Examinations Requiring Higher- and Lower-Order Cognitive Skills. January, 112–113.
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Fernandez, M. A.; Middlecamp, C. H. From San Juan to Madison: Cultural Perspectives on Teaching General Chemistry. March, 388–391.
Ferreira, M. M.; Ferreira, W. C.; Lino, A. C.; Porto, M. E. Uncovering Oscillations, Complexity, and Chaos in Chemical Kinetics Using *Mathematica*. June, 861–866.
Ferreira, V. F.; Cunha, A. C.; Pereira, L. O.; de Souza, M. C. Use of Protecting Groups in Carbohydrate Chemistry: An Advanced Organic Synthesis Experiment. January, 79–80.
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Fetterolf, M. L.; Goldsmith, J. G. An Interactive Dry Lab Introduction to Vibrational Raman Spectroscopy Using Carbon Tetrachloride. September, 1276–1277.
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Fitch, R. W.; Luzzio, F. A.; Moore, W. J.; Mudd, K. J. A Facile Oxidation of Alcohols Using Pyridinium Chlorochromate/Silica Gel. July, 974–975.
Fleurat-Lessard, P.; Pointet, K.; Renou-Gonnord, M. Quantitative Determination of PAHs in Diesel Engine Exhausts by GC–MS. July, 962–965.
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France, M. B.; Alty, L. T.; Earl, T. M. Synthesis of a 7-Oxanorbornene Derivative: A Two-Step Sequence Preparation for the Organic Laboratory. May, 659–660.
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Freeman, R. G.; Moody, A. E. Chemical Safety and Scientific Ethics in a Sophomore Chemistry Seminar. (CCD) September, 1224–1225.
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Frock, R. L.; Pfennig, B. W. The Use of Molecular Modeling and VSEPR Theory in the Undergraduate Curriculum to Predict the Three-Dimensional Structure of Molecules. (TECH) July, 1018–1022.
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G

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Gould, E. S. Phosphate Buffers and Telephone Poles—A Useful Analogy with Limitations. November, 1511.
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Guiñón, J. L.; García-Antón, J.; Pérez-Herranz, V. Spreadsheet Techniques for Evaluating the Solubility of Sparingly Soluble Salts of Weak Acids. (CBB) August, 1157–1160.
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Helser, T. L. Winter's Entertainment. (LTE) April, 468.
Hemmerling, B.; Kenkel, J.; Kelter, P. B. Innovations for an Industry-Based Curriculum: The I.O.N.S. Concept. ($2YC_3$) July, 889–891.
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Herman, C.; Mitchell, M.; Shubert, D. ChemKits: A Teacher-Training and Instrument-Sharing Project. October, 1409–1410.
Hermann, C. K.; Campanizzi , D. R.; Mason, B. Distillation Apparatuses Using Household Items. (SSC) August, 1079–1080.
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Hicks, B. W. Recombinant Green Fluorescent Protein Isoforms: Exercises To Integrate Molecular Biology, Biochemistry, and Biophysical Chemistry. (CIB) March, 409–415.
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Hodges, L. C. Active Learning in Upper-Level Chemistry Courses: A Biochemistry Example. March, 376–377.
Hoffman, D. C.; Lee, D. M. Chemistry of the Heaviest Elements—One Atom at a Time. (Viewpoints) March, 331–347.
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Hughes, E. A.; Ceretti, H.; Zalts, A. The Softening of Hard Water and Complexometric Titrations. An Undergraduate Experiment. October, 1420–1421.
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Kasmai, H. S. A Simple and Convenient Method for Generation and NMR Observation of Stable Carbanions: An Advanced Undergraduate Laboratory Experiment. (ACL) June, 830–834.
Kateley, L. J.; Thompson, M. L. The Nernst Equation: Determination of Equilibrium Constants for Complex Ions of Silver. January, 95–96.
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Kaufman, M. J.; Trowbridge, G. C. The Ionization Energy of Helium. January, 88–89.
Kaur, J.; Sodhi, G. S. Chemical Methods for Developing Latent Fingerprints. (JCE Activity) April, 488A–488B.
Keating, C. D.; Musick, M. D.; Keefe, M. H.; Natan, M. J. Kinetics and Thermodynamics of Au Colloid Monolayer Self-Assembly: Undergraduate Experiments in Surface and Nanomaterials Chemistry. July, 949–955.
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Kelley, K. H. *See* Poon, T. November, 1523–1524.
Kelter, P. B.; Castro-Acuña, C. M.; Dominguez-Danache, R. E.; Grundman, J. Puzzles in Chemistry and Logic. (RSA) April, 496–498.
Kelter, P. B.; Kenkel, J.; Hemmerling, B. Innovations for an Industry-Based Curriculum: The I.O.N.S. Concept. ($2YC_3$) July, 889–891.
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Kenney, M. J.; Haworth, D. T.; Bartelt, M. R. Solution Conductivity Apparatus. (TD) May, 625–627.
Kerkstra, A.; Coker, E. N.; Davis, P. J.; van Bekkum, H. Experiments with Zeolites at the Secondary School Level: Experience from The Netherlands. (SSC) October, 1417–1419.
Kesner, L.; Evring, E. M. Service–Learning General Chemistry: Lead Paint Analyses. July, 920–923.
Kettle, S. F. Modified Stereographic Projections of Point Groups and Diagrams of Their Irreducible Representations. May, 675–678.
Kettle, S. F.; Bor, G. Trigonometric Basis Set Functions: Their Application to the C–H Stretching and Deformation Motions of Benzene and to Orbital Symmetry. December, 1723–1726.
Kharisov, B. I.; Berdonosov, S. S.; Kuzmenko, N. E. Experience of Chemical Education in Russia: How to Attract the Young Generation to Chemistry under Conditions of "Chemophobia". August, 1086–1088.
Khandkar, L. R.; Budil, D. E.; Shehadi, I. A.; Ondrechen, M. Introducing a Practice-Oriented Approach in the Physical Chemistry Instructional Laboratory. (NSF) May, 601–602.
Kimbrough, D. R. Henry's Law and Noisy Knuckles. (AA) November, 1509–1510.
Kippeny, T. C.; Leary, J. J. A Framework for Presenting the Modern Atom. September, 1217–1218.
Klassen, J. B.; Graham, K. J.; Muldoon, W. P. Molecular Modeling as an Aid to Understanding Stereoselectivity. July, 985–986.
Kleinman, M. H.; Clouston, L. L. The Design and Synthesis of a Large Interactive Classroom. January, 60–61.
Kloter, R.; Cornely, K.; Crespo, E.; Earley, M.; Levesque, A.; Pickering, M. Kinetics of Papain: An Introductory Biochemistry Laboratory Experiment. May, 644–645.
Klotz, I. M. The Origin of $E = mc^2$: The Keys to Heaven Also Open the Gates of Hell. (ROJ) April, 459.
Klotz, I. M.; Rosenberg, R. M. Spontaneity and Log K (re *J. Chem. Educ.* **1998**, *75*, 342). (LTE) February, 165.
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Koehler, B. G.; Park, L. Y.; Kaplan, L. J. Science for Kids Outreach Programs: College Students Teaching Science to Elementary Students and Their Parents. (CFK) November, 1505–1509.
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Koubek, E.; Copper, C. L. An Experiment to Demonstrate How a Catalyst Affects the Rate of a Reaction. December, 1714–1715.

Koubek, E. Gelatinous Aluminum Hydroxide (re *J. Chem. Educ.* **1998**, *75*, 60). (LTE) June, 756.
Kovac, J. D.; Sherwood, D. W. Writing in Chemistry: An Effective Learning Tool. October, 1399–1403.
Kovac, J. D. Student Active Learning Methods in General Chemistry. January, 120–124.
Kovac, J. D.; Walsh, E. J.; Harris, H. H.; Pagni, R. Summer Reading. June, 730–733.
Kozliak, E. I. Citrate as a Flying Bird: Useful Mnemonics in Teaching the TCA Cycle. December, 1656.
Krasnoperov, L. N.; Stepanov, V. Introduction of Laser Photolysis—Transient Spectroscopy in an Undergraduate Physical Chemistry Laboratory: Kinetics of Ozone Formation. (NSF) September, 1182–1183.
Kroemer, R.; Kaufman, D.; Wright, G.; Engel, J. "New" Compounds from Old Plastics: Recycling PET Plastics via Depolymerization. An Activity for the Undergraduate Organic Lab. November, 1525–1526.
Kuck, L. R.; Hadd, A. G.; Lehmpuhl, D. W.; Birks, J. W. Chemiluminescence Demonstration Illustrating Principles of Ester Hydrolysis Reactions. (TD) September, 1237–1240.
Kumar, V.; Bedell, J. Y.; Seed, A. H. Technology: Catalyst for Enhancing Chemical Education for Pre-service Teachers. May, 713–717.
Kundell, F. A. An Introductory Experience for Physical Chemistry: Victor Meyer Revisited. April, 542.
Kurtz , M. J.; Birk, J. P. Effect of Experience on Retention and Elimination of Misconceptions about Molecular Structure and Bonding. January, 124–128.
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Labianca, D. A. Uncertainty in the Results of Breath-Alcohol Analyses. April, 508–510.
Lagorio, M. G. Reflectance Spectroscopy Using Wine Bottle Glass: An Undergraduate Experiment. November, 1551–1554.
Laguna, A.; Bardají, M. Gold Chemistry: The Aurophilic Attraction. February, 201–203.
Lahti, M.; Vilpo, J.; Hovinen, J. Spectrophotometric Determination of Thiocyanate in Human Saliva. September, 1281–1282.
Laird, B. B. Entropy, Disorder, and Freezing. October, 1388–1390.
Lambert, F. L. Shuffled Cards, Messy Desks, and Disorderly Dorm Rooms—Examples of Entropy Increase? Nonsense! October, 1385–1387.
Lambin, P.; Lucas, A. A.; Mairesse, R.; Mathot, M. Revealing the Backbone Structure of B-DNA from Laser Optical Simulations of Its X-ray Diffraction Diagram. March, 378–383.
Lampard, M. G. Diploma Training for Chemical Technicians in Australia. July, 918–919.
Lantz, J. M.; Feindt, J. E.; Lewellyn, E. P.; Walczak, M. M. *The Bridge of Mandolin County.* (TPCS) December, 1671–1672.
Last, A. M. Hunting for Chemicals in Consumer Products. (JCE Activity) November, 1504A–1504B.
Last, A. M. What Is It Used for? A Consumer-Chemical Hunt. November, 1503–1504.
Latosi-Sawin, E.; Wallner, A. S. Technical Writing and Communication in a Senior-Level Seminar. October, 1404–1406.
Lavabre, D.; Fery-Forgues, S. Are Fluorescence Quantum Yields So Tricky to Measure? A Demonstration Using Familiar Stationery Products. September, 1260–1264.
Lawrence, G. D.; Fishelson, S. Blueprint Photography by the Cyanotype Process. (JCE Activity) September, 1216A–1216B.
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Lawson, A. E.; Birk, J. P. The Persistence of the Candle-and-Cylinder Misconception. July, 914–916.
Le Floc'h, Y.; Amigoni, S.; Penverne, C.; Nugier-Chauvin, C. Chemistry of Natural α-Amino Acids: A Surprising "One-Pot Four-Step" Conversion of Polyfunctional Enones into Cyclic Imines. September, 1247–1250.
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LeBlanc, M.; White, M. A. Thermochromism in Commercial Products. September, 1201–1205.
Lechner, J. H. Visualizing Entropy. October, 1382–1385.
Lee, A. W.; So, C. T.; Chan, C. L.; Wu, Y. K. Pericyclic Reactions: FMO Approach: Abstract of Issue 9904M. (JCE Software) May, 720.
Lee, D. M.; Hoffman, D. C. Chemistry of the Heaviest Elements—One Atom at a Time. (Viewpoints) March, 331–347.
Lee, K. L. A Comparison of University Lecturers' and Preservice Teachers' Understanding of a Chemical Reaction at the Particulate Level. (CER) July, 1008–1012.
Lee, N. E.; Schreiber, K. G. The Chemistry Outreach Program: Women Undergraduates Presenting Chemistry to Middle School Students. July, 917–918.
Leenson, I. A. Old Rule of Thumb and the Arrhenius Equation. October, 1459–1460.
Leenson, I. A. The Arrhenius Law and Storage of Food in a Freezer. (RSA) April, 504–505.
Lehmpuhl, D. W.; Hadd, A. G.; Kuck, L. R.; Birks, J. W. Chemiluminescence Demonstration Illustrating Principles of Ester Hydrolysis Reactions. (TD) September, 1237–1240.
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Levesque, A.; Cornely, K.; Crespo, E.; Earley, M.; Kloter, R.; Pickering, M. Kinetics of Papain: An Introductory Biochemistry Laboratory Experiment. May, 644–645.
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Lewis, D. E.; Calimente, D. S.; Strand, S. M.; Chang, S. The Preparation of a Fluorescent Dye: A Microscale TLC Experiment. (ML) January, 82–83.
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Lewis, D. L.; Edmonson, L. J. Equilibrium Principles: A Game for Students. April, 502.
Li, L. Why Should Anyone Become a Scientist? The Ideals of Science and Its Importance. (Commentary) January, 20–21.
Liang, Y.; Chen, J.; Qu, S. On the "Abnormal" Decomposition Potentials of Aqueous Solutions of Halogen Acids. March, 444–445.
Libes, S. M. Constructing Environmental Impact Statements. An Organizational Focus for Teaching Analytical Environmental Chemistry. December, 1649–1656.
Libes, S. M. Learning Quality Assurance/Quality Control Using U.S. EPA Techniques. An Undergraduate Course for Environmental Chemistry Majors. December, 1642–1648.
Lichter, R. L. A Modest Question: What Does It Mean to Be a Professor? (Commentary) December, 1610–1611.
Lieberman, M. A Brine Shrimp Bioassay for Measuring Toxicity and Remediation of Chemicals. December, 1689–1691.
Lieberman, M. Instructional Scanning Tunneling Microscope (re *J. Chem. Educ.* **1997**, *74*, 1087–1089). (LTE) February, 165.
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Lindquist, D. A. Properties of Zeolite A Obtained from Powdered Laundry Detergent (re *J. Chem. Educ.* **1997**, *74*, 569–570). (LTE) April, 470.
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Lipkowitz, K. B.; Jalaie, M.; Robertson, D.; Barth, A. Interdisciplinary Learning with Computational Chemistry: A Collaboration between Chemistry and Geology. May, 684–688.
Liprandi, D. A.; Reinheimer, O. R.; Paredes, J. F.; L'Argentière, P. C. A Simple, Safe Way To Prepare Halogens and Study Their Visual Properties at a Technical Secondary School. April, 532–533.
Lisensky, G. C.; Campbell, D. J.; Beckman, K. J.; Calderon, C. E.; Doolan, P. W.; Moore, R. H.; Ellis, A. B. Replication and Compression of Surface Structures with Polydimethylsiloxane Elastomer. April, 537–541.
Lisensky, G. C.; Campbell, D. J.; Olson, J. A.; Calderon, C. E.; Doolan, P. W.; Mengelt, E. A.; Ellis, A. B. Chemistry with Refrigerator Magnets: From Modeling of Nanoscale Characterization to Composite Fabrication. September, 1205–1211.
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Lisensky, G. C.; Nordell, K. J.; Condren, S. M.; Ellis, A. B. Liver and Onions: DNA Extraction from Animal and Plant Tissues. (JCE Activity) March, 400A–400B.
Locascio, G.; Kocmur, S.; Cortón, E.; Haim, L.; Galagovsky, L. CO_2—Potentiometric Determination and Electrode Construction, a Hands-on Approach. September, 1253–1255.
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Logan, P.; Goodwin, V.; Cobbin, D. Examination of the Occupational Health and Safety Initiatives Available within the Chemistry Departments of Australian Universities. (ST) September, 1226–1229.
Logan, S. R. The Arrhenius Equation Revisited (re *J. Chem. Educ.* **1998**, *75*, 1186–1187). (LTE) July, 899.
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Long, S. *The Science Teacher*: Summer 1999. (ROJ) July, 882–883.
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Lopez-Baeza, E.; Pellicer, J.; Gilabert, M. A. The Evolution of the Celsius and Kelvin Temperature Scales and the State of the Art. July, 911–913.
Lord, D.; John, R. Determination of Anionic Surfactants Using Atomic Absorption Spectrometry and Anodic Stripping Voltammetry. September, 1256–1258.
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Loucks, L. F. Regression Methods To Extract Partial Molar Volume Values in the Method of Intercepts. March, 425–427.
Louters, L. L.; Huisman, R. D. Promoting Chemistry at the Elementary Level: A Low-Maintenance Program of Chemical Demonstrations. (CFK) February, 196–198.
Lubezky, A.; Zoller, U.; Fastow, M.; Tsaparlis, G. Students' Self-Assessment in Chemistry Examinations Requiring Higher- and Lower-Order Cognitive Skills. January, 112–113.
Lucas, A. A.; Lambin, P.; Mairesse, R.; Mathot, M. Revealing the Backbone Structure of B-DNA from Laser Optical Simulations of Its X-ray Diffraction Diagram. March, 378–383.
Luzzio, F. A.; Fitch, R. W.; Moore, W. J.; Mudd, K. J. A Facile Oxidation of Alcohols Using Pyridinium Chlorochromate/Silica Gel. July, 974–975.
Lynch, M.; Geary, N.; Hagaman, K.; Munson, A.; Sabo, M. Building the Interest of High School Students for Science—A PACT Ambassador Program To Investigate Soap Manufacturing and Industrial Chemistry. February, 191–195.
Lyon, J. M. A Way To Predict the Relative Stabilities of Structural Isomers. March, 364–366.

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MacIntyre, B. J.; Dean, W. K. A Fast and Reliable Method for Packing Capillaries for X-ray Powder Diffraction Analysis. September, 1245.
MacTaggart, D. L.; Burdge, J. R.; Farwell, S. O. Realistic Detection Limits from Confidence Bands. March, 434–439.
Macudzinski, R. M.; Pelter, M. W. A Puzzling Alcohol Dehydration Reaction Solved by GC–MS Analysis. June, 826–828.
Madea, J. C. Science for Kids in a Two-Year College. ($2YC_4$) November, 1477.
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Magee, J. A.; Herd, A. C. Internal Standard Calculations in Chromatography. February, 252–253.
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Mahurin, S. M.; Compton, R. N.; Zare, R. N. Demonstration of Optical Rotatory Dispersion of Sucrose. (ACL) September, 1234–1236.
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Malachowski, M.; Mills, N. CUR Institutes: A New Model for Supporting Research with Undergraduates. (CUR) October, 1320–1321.
Malherbe, J. S.; Meyer, C. J. Functional Group Analysis. (RSA) January, 56–57.
Manock, J. J.; Willey, J. D.; Avery, G. B.; Skrabal, S. A.; Stehman, C. F. Chemical Analysis of Soils: An Environmental Chemistry Laboratory for Undergraduate Science Majors. December, 1693–1694.
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Margarian, H.; DeMuro, J. C.; Mkhikian, A.; No, K. H.; Peterson, A. R. An Inexpensive Microscale Method for Measuring Vapor Pressure, Associated Thermodynamic Variables, and Molecular Weight. (ML) August, 1113–1116.
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Marsella, A. M.; Huang, J.; Ellis, D. A.; Mabury, S. A. An Undergraduate Field Experiment for Measuring Exposure to Environmental Tobacco Smoke in Indoor Environments. December, 1700–1701.
Marsh, D. F.; Falvo, R. E.; Mink, L. M. Microscale Synthesis and ^1H NMR Analysis of Tetraphenylporphyrins. (ML) February, 237–239.
Marti, M.; Nardello, V.; Pierlot, C.; Aubry, J. Photochemistry without Light: Oxidation of Rubrene in a Microemulsion with a Chemical Source of Singlet Molecular Oxygen ($^1O_2$, $^1\Delta_g$). September, 1285–1288.
Martin, R. B. Relative Humidity. August, 1081–1082.
Martin, R. B. Replace Double Replacement. January, 133.
Martin-Girardeau, A.; Demay, S.; Gonnord, M. Capillary Electrophoretic Quantitative Analysis of Anions in Drinking Water. June, 812–815.
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Marzzacco, C. J. The Enthalpy of Decomposition of Hydrogen Peroxide: A General Chemistry Calorimetry Experiment. November, 1517–1518.
Mason, B.; Campanizzi , D. R.; Hermann, C. K. Distillation Apparatuses Using Household Items. (SSC) August, 1079–1080.
Massello, W. *See* Poon, T. November, 1523–1524.
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McCluskey, C. L.; Roser, C. E. Pressure and Stoichiometry. (SSC) May, 638–640.
McCormick, J. A.; Whisnant, D. M. BCTC for Windows: Abstract of Issue 9903W. (JCE Software) May, 719.
McDowell, S. A. A Simple Derivation of the Boltzmann Distribution. October, 1393–1394.
McElveen, S. R.; Gavardinas, K.; Stamberger, J. A.; Mohan, R. S. The Discovery-Oriented Approach to Organic Chemistry. 1. Nitration of Unknown Organic Compounds. An Exercise in ^1H NMR and ^{13}C NMR Spectroscopy for Sophomore Organic Laboratories. April, 535–536.
McFate, C.; Olmsted, J. A. Assessing Student Preparation through Placement Tests. April, 562–565.
McGowin, A. E.; Hess, G. G. Incorporation of GC–MS into an Environmental Science Curriculum. (NSF) January, 23–24.
McInerny, W. J. Probability and Atomic Radius in the H Atom. March, 443–444.
McIntyre, J. P.; Poon, T.; Dorigo, A.; Davis, D. J.; Davis, M. A.; Eller, C. F.; Eller, L. R.; Izumi, H. K.; Jones, K. M.; Kelley, K. H.; Massello, W.; Melamed, M. L.; Norris, C. M.; Oelrich, J. A.; Pluim, T. A.; Poplawski, S. E.; St. Clair, J. M.; Stokes, M. P.; Wheeler, W. C.; Wilkes, E. E. The Preparation of a UV-Light-Absorbing Polymer: A Project-Oriented Laboratory Experiment for the Introductory Organic Chemistry Curriculum. November, 1523–1524.
McKean, P. B. Super Science Connections. (CFK) July, 916.
McKee, J. R.; Tomsho, J.; Zanger, M. A Microscale Synthesis of the Diastereomers of 2,3-Dibromosuccinic Acid. (ML) January, 73–74.
McNaught, I. J. Nonlinear Fitting to First-Order Kinetic Equations. October, 1457.
Mebane, R. C.; Schanley, S. A.; Rybolt, T. R.; Bruce, C. D. The Correlation of Physical Properties of Organic Molecules with Computed Molecular Surface Areas. May, 688–693.
Mehl, A. F.; Fancy, N. Examining the Rate of Renaturation for Genomic DNA Isolated from *E. coli*—An Integrated Physical Biochemistry Laboratory. May, 646–648.
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Mendes, A. M.; Silva, A. L.; Fernandes, C.; Wasterlain, O.; Costa, S. Cut-Out Molecular Models (re *J. Chem. Educ.* **1997**, *74*, 791–792). (LTE) January, 28–29.
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Messina, M. The Hartree–Fock Self-Consistent Field: An Allegorical Connection Using Two Coupled Harmonic Oscillators. October, 1439–1443.
Meszaros, M.; Russo, T. J. Vial Organic™—Organic Chemistry Labs for High School and Junior College. January, 69–70.
Meyer, C. J.; Malherbe, J. S. Functional Group Analysis. (RSA) January, 56–57.
Meyers, R. D.; Yee, G. T. A More Dramatic Container to Crush by Atmospheric Pressure. (TD) July, 933.
Miani, A.; Cané, E.; Trombetti, A. Geometry of Benzene from the Infrared Spectrum. September, 1288–1290.
Mickiewicz, J. A.; Nurrenbern, S. C.; Francisco, J. S. The Impact of Continuous Instructional Development on Graduate and Undergraduate Students. January, 114–119.
Middlecamp, C. H.; Fernandez, M. A. From San Juan to Madison: Cultural Perspectives on Teaching General Chemistry. March, 388–391.
Middlecamp, C. H.; Subramaniam, B. What Is Feminist Pedagogy? Useful Ideas for Teaching Chemistry. April, 520–525.
Mihas, P.; Papageorgiou, G. Fields of pH. (JCE Software) July, 1032.
Miller, B. Advanced Organic Chemistry: Reactions and Mechanisms (re *J. Chem. Educ.* **1998**, *75*, 1558–1559). (LTE) March, 320.
Miller, D. J. Cheating Probabilities? Probably Not (re *J. Chem. Educ.* **1998**, *75*, 1089). (LTE) November, 1483.
Miller, G. J.; Verkade, J. G. A Pictorial Approach to Molecular Orbital Bonding in Polymers: Non-Mathematical but Honest. March, 428–433.
Miller, J. B. Chemistry behind the News: Photodynamic Therapy—The Sensitization of Cancer Cells to Light. May, 592–594.
Miller, J. B. Chemistry in the News: 1998 Nobel Prizes in Chemistry and Medicine. January, 12–14.
Millet, P. Noble Metal–Membrane Composites for Electrochemical Applications. January, 47–49.
Mills, N.; Malachowski, M. CUR Institutes: A New Model for Supporting Research with Undergraduates. (CUR) October, 1320–1321.
Milne, R. W. Animating Reactions: A Low-Cost Activity for Particle Conceptualization at the Secondary Level. (CET) January, 50–51.
Mink, L. M.; Falvo, R. E.; Marsh, D. F. Microscale Synthesis and ^1H NMR Analysis of Tetraphenylporphyrins. (ML) February, 237–239.
Mirafzal, G. A.; Henderson, L. L. A First-Class-Meeting Exercise for General Chemistry: Introduction to Chemistry through an Experimental Tour. September, 1221–1223.
Miranda, M. J.; Arnáiz, F. J. Microscale Synthesis of Tributyl Arsenite. (ML) September, 1251–1252.
Mitchell, M.; Shubert, D.; Herman, C. ChemKits: A Teacher-Training and Instrument-Sharing Project. October, 1409–1410.
Mitschele, J. Inexpensive Variable Path-Length Cells for Discovery-Based Investigation of the Beer–Lambert Law (re *J. Chem. Educ.* **1999**, *76*, 399). (LTE) December, 1624.
Miyauchi, M.; Fujishige, S.; Maebashi, N. Both Nylon and PET Fibers Burn Continuously under Atmospheric Conditions. June, 793.
Mkhikian, A.; DeMuro, J. C.; Margarian, H.; No, K. H.; Peterson, A. R. An Inexpensive Microscale Method for Measuring Vapor Pressure, Associated Thermodynamic Variables, and Molecular Weight. (ML) August, 1113–1116.
Mohan, R. S.; McElveen, S. R.; Gavardinas, K.; Stamberger, J. A. The Discovery-Oriented Approach to Organic Chemistry. 1. Nitration of Unknown Organic Compounds. An Exercise in ^1H NMR and ^{13}C NMR Spectroscopy for Sophomore Organic Laboratories. April, 535–536.
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Moody, A. E.; Freeman, R. G. Chemical Safety and Scientific Ethics in a Sophomore Chemistry Seminar. (CCD) September, 1224–1225.
Moog, R. S.; Farrell, J. J.; Spencer, J. N. A Guided Inquiry General Chemistry Course. April, 570–574.
Moore, D. A.; Cortés-Figueroa, J. E. Using CBL Technology and a Graphing Calculator To Teach the Kinetics of Consecutive First-Order Reactions. (TECH) May, 635–638.
Moore, D. E.; Davis, D. S. Incorporation of FT-NMR throughout the Chemistry Curriculum. (NSF) December, 1617–1618.
Moore, J. S.; Venkataraman, D.; Hirsch, K. A. A Coordination Geometry Table (re *J. Chem. Educ.* **1997**, *74*, 915–919). (LTE) January, 28.
Moore, J. W. Do We Really Value Learning? (Editorial) January, 5.
Moore, J. W. Do You Realize That in the Year 2000.... (Editorial) December, 1605.
Moore, J. W. Education in an Information Society. (Editorial) April, 453.
Moore, J. W. Getting an Answer Right. (Editorial) July, 877.
Moore, J. W. Higher Education in Transition. (Editorial) March, 293.
Moore, J. W. Kicking the Football? (Editorial) October, 1317.
Moore, J. W. Leadership Does Make a Difference. (Editorial) May, 589.
Moore, J. W. Learning Is a Do-It-Yourself Activity. (Editorial) June, 725.
Moore, J. W. Linking to the Future. (Editorial) September, 1165.
Moore, J. W. Reaching Out. (Editorial) November, 1469.
Moore, J. W. Seeing Is Believing. Or Is It? (Editorial) August, 1037.
Moore, J. W. What Did You Try Last Semester? How Did It Work? (Editorial) February, 149.
Moore, J. W.; Banks, A. J.; Holmes, J. L.; Jacobsen, J. J.; Schatz, P. F.; Tweedale, J.; Kotz, J. C.; Robinson, W. R.; Young, S. Periodic Table Live! 2nd Edition. (JCE Software) March, 447–448.
Moore, J. W.; Jacobsen, J. J. Chemistry Comes Alive! Vol. 3: Abstract of Special Issue 23 on CD-ROM. (JCE Software) September, 1311–1312.
Moore, R. H.; Campbell, D. J.; Beckman, K. J.; Calderon, C. E.; Doolan, P. W.; Ellis, A. B.; Lisensky, G. C. Replication and Compression of Surface Structures with Polydimethylsiloxane Elastomer. April, 537–541.
Moore, W. J.; Luzzio, F. A.; Fitch, R. W.; Mudd, K. J. A Facile Oxidation of Alcohols Using Pyridinium Chlorochromate/Silica Gel. July, 974–975.

Morallón, E.; Raymundo-Piñero, E.; Cazorla-Amorós, D. Catalytic Oxidation of Sulfur Dioxide by Activated Carbon: A Physical Chemistry Experiment. July, 958–961.
Morgan, M. E. Calculating Units with the HP 48G Calculator. May, 631.
Morgan, S. L.; Galipo, R. C.; Canhoto, A. J.; Walla, M. D. Analysis of Volatile Fragrance and Flavor Compounds by Headspace Solid Phase Microextraction and GC–MS: An Undergraduate Instrumental Analysis Experiment. February, 245–248.
Morioka, S. S.; Giles, B. J.; Matsche, Z.; Egeland, R. D.; Reed, R. A.; Taber, R. L. An in Vivo ^{13}C NMR Analysis of the Anaerobic Yeast Metabolism of 1-^{13}C-Glucose. (ACL) November, 1564–1566.
Morong, D. M. The Amatrur Mineral Chemist. (LTE) October, 1340.
Morris, K. M.; Creary, X. A New Twist on the Iodine Clock Reaction: Determining the Order of a Reaction. (OPD) April, 530–531.
Morse, J. G. A Simple Demonstration Model of Osmosis. (TD) January. 64–65.
Mowry, S.; Ogren, P. J. Kinetics of Methylene Blue Reduction by Ascorbic Acid. July, 970–974.
Moya, H. D.; Neves, E. A.; Coichev, N. A Further Demonstration of Sulfite-Induced Redox Cycling of Metal Ions Initiated by Shaking. (TD) July, 930–932.
Mudd, K. J.; Luzzio, F. A.; Fitch, R. W.; Moore, W. J. A Facile Oxidation of Alcohols Using Pyridinium Chlorochromate/Silica Gel. July, 974–975.
Mulcahy, T.; Wesolowski, S. S.; Zafoni, C. M.; Wesolowski, W. E. The Development of a Microscale Continuous Hot Solvent Extractor. (ML) August, 1116–1117.
Muldoon, W. P.; Klassen, J. B.; Graham, K. J. Molecular Modeling as an Aid to Understanding Stereoselectivity. July, 985–986.
Mullis, T. C.; Winge, J. T.; Deal, S. T. An Alternative Procedure for the Glucose Oxidase Assay of Glucose as Applied to the Lactase Activiry Assay. December, 1711.
Munson, A.; Lynch, M.; Geary, N.; Hagaman, K.; Sabo, M. Building the Interest of High School Students for Science—A PACT Ambassador Program To Investigate Soap Manufacturing and Industrial Chemistry. February, 191–195.
Muranaka, K. Simulation of One-Dimensional Brownian Motion by Stochastic Differential Equations. July, 994–998.
Muranaka, K. Teaching Statistical Methods (re *J. Chem. Educ.* **1998**, *75*, 231–233). (LTE) April, 469.
Musick, M. D.; Keating, C. D.; Keefe, M. H.; Natan, M. J. Kinetics and Thermodynamics of Au Colloid Monolayer Self-Assembly: Undergraduate Experiments in Surface and Nanomaterials Chemistry. July, 949–955.
Myers, C.; Wilson, A.; Crull, G.; Curtis, M.; Pasciak, P. M. Analysis of Soft Drinks Using Nuclear Magnetic Resonance Spectroscopy: A Mentorship. October, 1414–1416.
Myers, D. R.; Crane, J. Re-Blue-ing Blue Litmus Paper (re *J. Chem. Educ.* **1998**, *75*, 183). (LTE) March, 319.
Myers, G. H.; Williams, K. R. The Cinderella Story Revisited—Again. (FPI) January, 19.

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Nahir, T. M. Analysis of Semivolatile Organic Compounds in Fuels Using Gas Chromatography–Mass Spectrometry. (TICI) December, 1695–1696.
Najdoski, M.; Pejov, L. J.; Petruševski, V. M. Pyroelectric Effect of a Sucrose Monocrystal. (TD) March, 360–361.
Nardello, V.; Marti, M.; Pierlot, C.; Aubry, J. Photochemistry without Light: Oxidation of Rubrene in a Microemulsion with a Chemical Source of Singlet Molecular Oxygen ($^1O_2$, $^1\Delta_g$). September, 1285–1288.
Natan, M. J.; Keating, C. D.; Musick, M. D.; Keefe, M. H. Kinetics and Thermodynamics of Au Colloid Monolayer Self-Assembly: Undergraduate Experiments in Surface and Nanomaterials Chemistry. July, 949–955.
Neeland, E. G. An Introductory Organic Lab for the Problem-Solving Lab Approach. February, 230–231.
Nelson, J. D.; Taber, D. F.; Northrop, J. P. Preparation and Identification of Benzoic Acids and Benzamides: An Organic "Unknown" Lab. June, 828–829.
Nelson, P. G. Levels of Description in Chemistry (re *J. Chem. Educ.* **1998**, *75*, 679–687, 817–828, 961–969). (LTE) December, 1622.
Nestor, L. P.; Herrick, R. S.; Benedetto, D. A. Using Data Pooling to Measure the Density of Sodas: An Introductory Discovery Experiment. October, 1411–1413.
Neves, E. A.; Moya, H. D.; Coichev, N. A Further Demonstration of Sulfite-Induced Redox Cycling of Metal Ions Initiated by Shaking. (TD) July, 930–932.
Niaz, M. Should We Put Observations First? (Commentary) June, 734.
Nicholson, J. W.; Anstice, H. M. The Chemistry of Modern Dental Filling Materials. (POC) November, 1497–1501.
Nicolaou, K. C. The Art and Science of Organic and Natural Products Synthesis (re *J. Chem. Educ.* **1998**, *75*, 1225–1258). (Correction) May, 609.
No, K. H.; DeMuro, J. C.; Margarian, H.; Mkhikian, A.; Peterson, A. R. An Inexpensive Microscale Method for Measuring Vapor Pressure, Associated Thermodynamic Variables, and Molecular Weight. (ML) August, 1113–1116.
Noda, L. K.; Sala, O.; Araki, K. A Procedure to Obtain the Effective Nuclear Charge from the Atomic Spectrum of Sodium. September, 1269–1271.
Nordell, K. J.; Condren, S. M.; Lisensky, G. C.; Ellis, A. B. Liver and Onions: DNA Extraction from Animal and Plant Tissues. (JCE Activity) March, 400A–400B.
Nordholm, S.; Backsay, G. B.; Reimers, J. R. The Mechanism of Covalent Bonding (re *J. Chem. Educ.* **1997**, *74*, 1494–1502). (LTE) March, 319.
Norris, C. M.; Poon, T.; Bodolosky, S. A. An Integrated Molecular Modeling and Melting Point Experiment for the Organic Chemistry Laboratory. July, 983–985.
Norris, C. M. *See* Poon, T. November, 1523–1524.
Northrop, J. P.; Taber, D. F.; Nelson, J. D. Preparation and Identification of Benzoic Acids and Benzamides: An Organic "Unknown" Lab. June, 828–829.
Novak, I. Electronic States and Configurations: Visualizing the Difference. (CBB) January, 135–137.
Novak, I. When Do Arrows Not Have Tips? October, 1380–1381.
Nugier-Chauvin, C.; Amigoni, S.; Penverne, C.; Le Floc'h, Y. Chemistry of Natural α-Amino Acids: A Surprising "One-Pot Four-Step" Conversion of Polyfunctional Enones into Cyclic Imines. September, 1247–1250.
Nurrenbern, S. C.; Herron, J. D. Chemical Education Research: Improving Chemistry Learning. (Viewpoints) October, 1353–1361.
Nurrenbern, S. C.; Mickiewicz, J. A.; Francisco, J. S. The Impact of Continuous Instructional Development on Graduate and Undergraduate Students. January, 114–119.

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O'Hara, P. B.; Sanborn, J. A.; Howard, M. Pesticides in Drinking Water: Project-Based Learning within the Introductory Chemistry Curriculum. December, 1673–1677.
O'Malley, R. M.; Lin, H. C. The Separation and Identification of Some Brominated and Chlorinated Compounds by GC/MS: An Advanced Undergraduate Laboratory. November, 1547–1551.
Oelrich, J. A. *See* Poon, T. November, 1523–1524.
Ogren, P. J.; Mowry, S. Kinetics of Methylene Blue Reduction by Ascorbic Acid. July, 970–974.
Olbris, D. J.; Herzfeld, J. *Nucleogenesis!* A Game with Natural Rules for Teaching Nuclear Synthesis and Decay. March, 349–352.
Olivieri, A. C.; Ibañez, G. A.; Escandar, G. M. Determination of Equilibrium Constants of Metal Complexes from Spectrophotometric Measurements. An Undergraduate Laboratory Experiment. September, 1277–1281.
Olmsted, J. A. Amounts Tables as a Diagnostic Tool for Flawed Stoichiometric Reasoning. January, 52–54.
Olmsted, J. A. The Mid-Lecture Break: When Less Is More. April, 525–527.
Olmsted, J. A.; McFate, C. Assessing Student Preparation through Placement Tests. April, 562–565.
Olson, J. A.; Campbell, D. J.; Calderon, C. E.; Doolan, P. W.; Mengelt, E. A.; Ellis, A. B., Lisensky, G. C. Chemistry with Refrigerator Magnets: From Modeling of Nanoscale Characterization to Composite Fabrication. September, 1205–1211.
Ondrechen, M.; Budil, D. E.; Khundkar, L. R.; Shehadi, I. A. Introducing a Practice-Oriented Approach in the Physical Chemistry Instructional Laboratory. (NSF) May, 601–602.
Orna, M. V. Can Any Good Thing Come out of Nazareth? (John 1:46): 1999 George C. Pimentel Award, sponsored by Union Carbide Corporation. September, 1169–1173.
Orzechowski, G. E.; Wilmer, B. K.; Poziomek, E. Environmental Chemistry Using Ultrasound. (TD) December, 1657.
Owen, N. L.; Barker, B. Identifying Softwoods and Hardwoods by Infrared Spectroscopy. December, 1706–1709.

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Pagni, R.; Walsh, E. J.; Kovac, J. D.; Harris, H. H. Summer Reading. June, 730–733.
Paiva, J. C.; Gil, V. M. Equilibrium: A Teaching/Learning Activity (re *J. Chem. Educ.* **1998**, *75*, 1176–1177). (LTE) July, 900.
Palazzolo, G.; Delorenzi, N. J.; Araujo, C.; Gatti, C. A. A Simple Device to Demonstrate the Principles of Fluorometry. (CET) September, 1265–1266.
Palmer, C. P. Demonstrating Chemical and Analytical Concepts in the Undergraduate Laboratory Using Capillary Electrophoresis and Micellar Electrokinetic Chromatography. November, 1542–1543.
Pandey, S.; Borders, T. L.; Hernández, C. E.; Roy, L. E.; Reddy, G. D.; Martínez, G. L.; Jackson, A.; Brown, G.; Acree, W. E. Comparison of Analytical Methods: Direct Emission versus First-Derivative Fluorometric Methods for Quinine Determinations in Tonic Waters. January, 85–87.
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Papageorgiou, G.; Mihas, P. Fields of pH. (JCE Software) July, 1032.
Papageorgiou, G.; Xenos, J. An Apparatus for Temperature Displays. (OPD) August, 1094–1095.
Pappano, N. B.; Barufaldi, M.; Debattista, N. B. Quantitative Protein Determination from Cellulose Acetate Strip Electrophoresis. July, 965–966.
Paredes, J. F.; Liprandi, D. A.; Reinheimer, O. R.; L'Argentière, P. C. A Simple, Safe Way To Prepare Halogens and Study Their Visual Properties at a Technical Secondary School. April, 532–533.
Park, L. Y.; Koehler, B. G.; Kaplan, L. J. Science for Kids Outreach Programs: College Students Teaching Science to Elementary Students and Their Parents. (CFK) November, 1505–1509.
Parkash, B.; Gupta, H. O. A Novel Multipurpose Model Set for Teaching General Chemistry. February, 204–205.
Parshall, G. W.; Tolman, C. A. Fifty-Year Trends in the Chemical Industry: What Do They Mean for Chemical Education? (Viewpoints) February, 177–189.
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Pasciak, P. M.; Wilson, A.; Myers, C.; Crull, G.; Curtis, M. Analysis of Soft Drinks Using Nuclear Magnetic Resonance Spectroscopy: A Mentorship. October, 1414–1416.
Passmore, J.; Basford, H. K.; Jenkins, H. D.; Glasser, L. Thermochemical Radii of Complex Ions. November, 1570–1573.
Patterson, G. S. A Simplified Method for Finding the pK_a of an Acid–Base Indicator by Spectrophotometry. March, 395–398.
Patterson, R. T. An Improved Interpretation of the Woodward–Hoffmann Rules. July, 1002–1007.
Paulisse, K. W.; Polik, W. F. Use of WWW Discussion Boards in Chemistry Education. (TECH) May, 704–708.
Paulson, D. R. Active Learning and Cooperative Learning in the Organic Chemistry Lecture Class. (CER) August, 1136–1140.
Pavlath, A. E. Statement on Education. September, 1174.
Pearson, R. G. Maximum Chemical and Physical Hardness. February, 267–275.
Pecina, M. A.; Smith, C. A. A Classroom Demonstration of Rayleigh Light Scattering in Optically Active and Inactive Systems. (TD) September, 1230–1233.
Pedrosa, M. R.; Arnáiz, F. J. Microscale Transformations of Some Lead Compounds. A Cycle for Lead Minimizing the Production of Wastes. (ML) December, 1687–1688.
Pejov, L. J.; Najdoski, M.; Petruševski, V. M. Pyroelectric Effect of a Sucrose Monocrystal. (TD) March, 360–361.
Pellicer, J.; Gilabert, M. A.; Lopez-Baeza, E. The Evolution of the Celsius and Kelvin Temperature Scales and the State of the Art. July, 911–913.
Pelter, M. W.; Macudzinski, R. M. A Puzzling Alcohol Dehydration Reaction Solved by GC–MS Analysis. June, 826–828.
Pemberton, J. E.; Wood, L. L.; Ghoman, G. S. Determination of Surface Coverage of an Adsorbate on Silica Using FTIR Spectroscopy. February, 253–257.
Pence, H. E.; Pence, L. E.; Wildeman, T. R. Program for the Division of Chemical Education: New Orleans, LA, August 22–26, 1999. August, 1041–1045.
Pence, L. E. Cooperative Electronic Mail: Effective Com-

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Pence, L. E.; Weisgerber, A. M.; Maounis, F. A. Synthesis of Molybdenum–Molybdenum Quadruple Bonds: A Multistep Advanced Synthesis Laboratory Experiment. March, 404–405.
Penverne, C.; Amigoni, S.; Nugier-Chauvin, C.; Le Floc'h, Y. Chemistry of Natural α-Amino Acids: A Surprising "One-Pot Four-Step" Conversion of Polyfunctional Enones into Cyclic Imines. September, 1247–1250.
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Pérez-Herranz, V.; Guiñón, J. L.; García-Antón, J. Spreadsheet Techniques for Evaluating the Solubility of Sparingly Soluble Salts of Weak Acids. (CBB) August, 1157–1160.
Perkins, R. CHEMED '99. November, 1474–1475.
Peterson, A. R.; DeMuro, J. C.; Margarian, H.; Mkhikian, A.; No, K. H. An Inexpensive Microscale Method for Measuring Vapor Pressure, Associated Thermodynamic Variables, and Molecular Weight. (ML) August, 1113–1116.
Petruševski, V. M.; Najdoski, M.; Pejov, L. J. Pyroelectric Effect of a Sucrose Monocrystal. (TD) March, 360–361.
Petzold, C. J.; Burden, S. L. Antacids Revisited with Modern Chemical Instruments: GCMS, AAS, and CCT. November, 1544–1547.
Pfennig, B. W.; Frock, R. L. The Use of Molecular Modeling and VSEPR Theory in the Undergraduate Curriculum to Predict the Three-Dimensional Structure of Molecules. (TECH) July, 1018–1022.
Phan, J.; Crundwell, G.; Kantardjieff, K. A. The Incorporation of a Single-Crystal X-ray Diffraction Experiment into the Undergraduate Physical Chemistry Laboratory. September, 1242–1245.
Phillips, D. N.; Jefferson, A. Teaching Polymer Science to Third-Year Undergraduate Chemistry Students. February, 232–235.
Pickard, L. J.; Harris, M. E. Investigating the Cuprammonium Rayon Process in a High School Laboratory. (VIEW) November, 1512–1513.
Pickering, M.; Cornely, K.; Crespo, E.; Earley, M.; Kloter, R.; Levesque, A. Kinetics of Papain: An Introductory Biochemistry Laboratory Experiment. May, 644–645.
Pierlot, C.; Nardello, V.; Marti, M.; Aubry, J. Photochemistry without Light: Oxidation of Rubrene in a Microemulsion with a Chemical Source of Singlet Molecular Oxygen ($^1O_2$, $^1\Delta_g$). September, 1285–1288.
Pike, R. M.; Singh, M. M.; Szafran, Z. Microscale Chemistry and Green Chemistry: Complementary Pedagogies. (ML) December, 1684–1686.
Pitta, A. T.; Papadopoulos, N.; Markopoulos, N.; Limniou, M.; Lemos, M. A.; Lemos, F. M.; Freire, F. G. Viscosity Measurement: A Virtual Experiment: Abstract of Issue 9907W. (JCE Software) November, 1600.
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Pluim, T. A. *See* Poon, T. November, 1523–1524.
Plumsky, R. A pHorseshoe. (VIEW) July, 935–936.
Poche, D. S.; Russo, P. S.; Fong, B.; Temyanko, E.; Ricks, H. Teaching Light Scattering to Reinforce Basic Principles. November, 1534–1538.
Poechmann, J. L.; Strein, T. G.; Prudenti, M. Micellular Electrokinetic Capillary Chromatography in the Undergraduate Curriculum: Separation and Identification of the Amino Acid Residues in an Unknown Dipeptide Using FMOC Derivatization. June, 820–825.
Pointet, K.; Fleurat-Lessard, P.; Renou-Gonnord, M. Quantitative Determination of PAHs in Diesel Engine Exhausts by GC–MS. July, 962–965.
Pojman, J. A. Studying Nonlinear Dynamics with Numerical Experiments: Dynamics.mcd. (MCAD) September, 1310.
Polik, W. F.; Paulisse, K. W. Use of WWW Discussion Boards in Chemistry Education. (TECH) May, 704–708.
Polik, W. F.; Schwenz, R. W. Analysis of the Infrared Spectra of Diatomic Molecules. September, 1302–1307.
Poole, M. J.; Glaser, R. E. Organic Chemistry Online: Building Collaborative Learning Communities through Electronic Communication Tools. May, 699–703.
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Poplawski, S. E. *See* Poon, T. November, 1523–1524.
Portnow, J. Chemical Supplies. (LTE) May, 607.
Porto, M. E.; Ferreira, M. M.; Ferreira, W. C.; Lino, A. C. Uncovering Oscillations, Complexity, and Chaos in Chemical Kinetics Using *Mathematica*. June, 861–866.
Poziomek, E.; Wilmer, B. K.; Orzechowska, G. E. Environmental Chemistry Using Ultrasound. (TD) December, 1657.
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Pringle, D. L.; Henderleiter, J. Effects of Context-Based Laboratory Experiments on Attitudes of Analytical Chemistry Students. (CER) January, 100–106.
Prudenti, M.; Strein, T. G.; Poechmann, J. L. Micellular Electrokinetic Capillary Chromatography in the Undergraduate Curriculum: Separation and Identification of the Amino Acid Residues in an Unknown Dipeptide Using FMOC Derivatization. June, 820–825.
Pursell, C. J.; Doezema, L. The Electronic Absorption Spectrum of Molecular Iodine: A New Fitting Procedure for the Physical Chemistry Laboratory. June, 839–841.
Purser, G. H. Lewis Structures Are Models for Predicting Molecular Structure, *Not* Electronic Structure. July, 1013–1018.

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Rae, I. D.; Kauffman, G. B.; Jursík, F. Emil Votoček (1872–1950): A Tribute to the Chemist-Composer-Lexicographer. April, 511–519.
Ram, P. Problem-Based Learning in Undergraduate Instruction. A Sophomore Chemistry Laboratory. August, 1122–1126.
Ramachandran, B. R.; Halpern, A. M. The Balmer Spectrum of Hydrogen: An Old Experiment with a New Twist. September, 1266–1268.
Range, K.; Salter, C.; Salter, G. Laser-Induced Fluorescence of Lightsticks. January, 84–85.
Rapp, C. S. Instructional Scanning Tunneling Microscope (re *J. Chem. Educ.* **1997**, *74*, 1087–1089). (LTE) February, 165.
Raymundo-Piñero, E.; Cazorla-Amorós, D.; Morallón, E. Catalytic Oxidation of Sulfur Dioxide by Activated Carbon: A Physical Chemistry Experiment. July, 958–961.
Rebbert, R.; Reutt-Robey, J.; Blough, N. Seeding the Physical and Analytical Laboratory Curriculum with Interdisciplinary Applications. (NSF) February, 161–162.
Reddy, G. D.; Pandey, S.; Borders, T. L.; Hernández, C. E.; Roy, L. E.; Martinez, G. L.; Jackson, A.; Brown, G.; Acree, W. E. Comparison of Analytical Methods: Direct Emission versus First-Derivative Fluorometric Methods for Quinine Determinations in Tonic Waters. January, 85–87.
Reed, B. C. Accurate and Efficient Perturbation Theory by Matrix Inversion. October, 1444–1447.
Reed, J. L. The Genius of Slater's Rules. June, 802–804.
Reed, R. A.; Giles, B. J.; Matsche, Z.; Egeland, R. D.; Morioka, S. S.; Taber, R. L. An in Vivo ^{13}C NMR Analysis of the Anaerobic Yeast Metabolism of 1-^{13}C-Glucose. (ACL) November, 1564–1566.
Reilly, T. J. The Preparation of Lidocaine. November, 1557.
Reimers, J. R.; Bacskay, G. B.; Nordholm, S. The Mechanism of Covalent Bonding (re *J. Chem. Educ.* **1997**, *74*, 1494–1502). (LTE) March, 319.
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Renou-Gonnord, M.; Fleurat-Lessard, P.; Pointet, K. Quantitative Determination of PAHs in Diesel Engine Exhausts by GC–MS. July, 962–965.
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Rhoads, H.; Bumpus, J. A.; Tricker, J.; Andrzejewski, K.; Tatarko, M. Remediation of Water Contaminated with an Azo Dye: An Undergraduate Laboratory Experiment Utilizing an Inexpensive Photocatalytic Reactor. December, 1680–1683.
Rice, R. E. Prove All Things: Hold Fast That Which is Good. (FPI) December, 1614–1615.
Rice, S. A.; Gasyna, Z. L. Computational Chemistry in the Undergraduate Chemistry Curriculum: Development of a Comprehensive Course Formula. July, 1023–1029.
Richman, R. M. In Defense of Quantum Numbers (re *J. Chem. Educ.* **1998**, *75*, 536). (LTE) May, 608.
Ricker, A. S.; Thompson, R. Q. Teaching Chemical Information in a Liberal Arts Curriculum. (CII) November, 1590–1593.
Ricks, H.; Poche, D. S.; Russo, P. S.; Fong, B.; Temyanko, E. Teaching Light Scattering to Reinforce Basic Principles. November, 1534–1538.
Rigos, A. A.; Salemme, K. Photochemistry and Pinhole Photography: An Interdisciplinary Experiment. (JCE Activity) June, 736A–736B.
Rioux, F. Electron-Momentum Spectroscopy and the Measurement of Orbitals: Interesting Results for Chemists from the *American Journal of Physics*. (ROJ) February, 156–158.
Rioux, F. Potential Energy Sufficient for Atoms (re *J. Chem. Educ.* **1998**, *75*, 537–539). (LTE) May, 605.
Robertson, D.; Lipkowitz, K. B.; Jalaie, M.; Barth, A. Interdisciplinary Learning with Computational Chemistry: A Collaboration between Chemistry and Geology. May, 684–688.
Robinson, W. R. A View from the Science Education Research Literature: Concept Map Assessment of Classroom Learning. (ROJ) September, 1179–1180.
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Robinson, W. R.; Banks, A. J.; Holmes, J. L.; Jacobsen, J. J.; Moore, J. W.; Schatz, P. F.; Tweedale, J.; Kotz, J. C.; Young, S. Periodic Table Live! 2nd Edition. (JCE Software) March, 447–448.
Rodríguez, C. The Art and Science of Organic and Natural Products Synthesis (re *J. Chem. Educ.* **1998**, *75*, 1225–1258). (LTE) May, 609.
Rodríguez, L. J.; Valero, M.; Velázquez, M. M. Determination of Thermodynamic Parameters of the Cyclodextrin Inclusion Processes: An Undergraduate Physical Chemistry Lab Experiment. March, 418–419.
Rosenberg, R. M. Description of Regions in Two-Component Phase Diagrams. February, 223–225.
Rosenberg, R. M.; Klotz, I. M. Spontaneity and Log K (re *J. Chem. Educ.* **1998**, *75*, 342). (LTE) February, 165.
Rosenberg, R. M.; Klotz, I. M. Spontaneity and the Equilibrium Constant: Advantages of the Planck Function. October, 1448–1451.
Roser, C. E.; McCluskey, C. L. Lightstick Kinetics. (SSC) November, 1514–1515.
Roser, C. E.; McCluskey, C. L. Pressure and Stoichiometry. (SSC) May, 638–640.
Ross, A. S.; Goodwin, T. E.; Hurst, E. M. A Multistep Synthesis of 4-Nitro-1-ethynylbenzene Involving Palladium Catalysis, Conformational Analysis, Acetal Hydrolysis, and Oxidative Decarbonylation. (ML) January, 74–75.
Rothchild, R.; Callahan, R.; Kobilinsky, L. Organic Chemistry Course Development in a Forensic Science Program: Use of FT-NMR. (NSF) October, 1332–1333.
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Rothstein, S. M.; Cuthbert, H. L. Quantum Chemistry without Wave Functions: Diffusion Monte Carlo Applied to H and H_2^+. October, 1378–1379.
Roussel, M. R. Redesigning the Quantum Mechanics Curriculum to Incorporate Problem Solving Using a Computer Algebra System. October, 1373–1377.
Roxburgh, F. M.; Cifuentes, M. P.; Humphrey, M. G. Ruthenium Complexes with η^1-Organic Ligands: An Advanced Undergraduate Inorganic/Organometallic Chemistry Experiment. March, 401–403.
Roy, L. E.; Pandey, S.; Borders, T. L.; Hernández, C. E.; Reddy, G. D.; Martinez, G. L.; Jackson, A.; Brown, G.; Acree, W. E. Comparison of Analytical Methods: Direct Emission versus First-Derivative Fluorometric Methods for Quinine Determinations in Tonic Waters. January, 85–87.
Rush, A. C.; Fortman, J. J.; Stamper, J. E. Variations on the "Whoosh" Bottle Alcohol Explosion Demonstration Including Safety Notes. (TD) August, 1092–1094.

Russell, J. V. Using Games To Teach Chemistry. 2. CHeMoVEr Board Game. April, 487–488.
Russell, J. V. Using Games To Teach Chemistry: An Annotated Bibliography. April, 481–484.
Russell, J. V.; Granath, P. L. Using Games to Teach Chemistry. 1. The Old Prof Card Game. April, 485–486.
Russo, P. S.; Poche, D. S.; Fong, B.; Temyanko, E.; Ricks, H. Teaching Light Scattering to Reinforce Basic Principles. November, 1534–1538.
Russo, T. J.; Meszaros, M. Vial Organic™—Organic Chemistry Labs for High School and Junior College. January, 69–70.
Rybolt, T. R.; Mebane, R. C.; Schanley, S. A.; Bruce, C. D. The Correlation of Physical Properties of Organic Molecules with Computed Molecular Surface Areas. May, 688–693.
Rybolt, T. R.; Waddell, T. G. The Chemical Adventures of Sherlock Holmes: The Death Puzzle at 221B Baker Street. April, 489–493.

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Sadavoy, L. Equilibrium: A Teaching/Learning Activity (re *J. Chem. Educ.* **1998**, *75*, 1176–1177). (LTE) July, 900.
Sadik, O. A.; Brenda, S.; Joasil, P.; Lord, J. Electropolymerized Conducting Polymers as Glucose Sensors: An Undergraduate Analytical Chemistry Laboratory Experiment. July, 967–970.
Sala, L. F.; Signorella, S.; García, S. An Easy Experiment To Compare Factors Affecting the Reaction Rate of Structurally Related Compounds. (ACL) March, 405–408.
Sala, O.; Araki, K.; Noda, L. K. A Procedure to Obtain the Effective Nuclear Charge from the Atomic Spectrum of Sodium. September, 1269–1271.
Salemme, K.; Rigos, A. A. Photochemistry and Pinhole Photography: An Interdisciplinary Experiment. (JCE Activity) June, 736A–736B.
Salter, C.; Range, K.; Salter, G. Laser-Induced Fluorescence of Lightsticks. January, 84–85.
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Samson, H.; Burke, B. A.; Golestaneh, K. Luminosity, My Dear Watson, Luminosity!—Or, Are Those Bloodstains? (TD) January, 65–67.
Sanborn, J. A.; O'Hara, P. B.; Howard, M. Pesticides in Drinking Water: Project-Based Learning within the Introductory Chemistry Curriculum. December, 1673–1677.
Sanger, M. J.; Greenbowe, T. J. An Analysis of College Chemistry Textbooks As Sources of Misconceptions and Errors in Electrochemistry. June, 853–860.
Santos, N. C.; Fernandes, M. X.; Castanho, M. A. Overcoming Angular Dependency When Teaching Light Scattering Using a Spectrofluorometer: The Molecular Weight of Latex Beads. September, 1259.
Sarquis, A. M.; Woodward, L. M. Alka Seltzer Poppers: An Interactive Exploration. (RSA) March, 385–386.
Sarquis, J. L. Secretary's Report, April 1999. (ACS) June, 736.
Sauder, D.; Long, G. R.; Shalhoub, G. M.; Stout, R. P.; Towns, M. H.; Zielinski, T. J. The Iodine Spectrum: A New Look at an Old Topic. June, 841–847.
Sayre, N. E.; Sayre, W. G. A Good Beginning. May, 621.
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Scerri, E. R. In Defense of Quantum Numbers (re *J. Chem. Educ.* **1998**, *75*, 536). (LTE) May, 608.
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Schanley, S. A.; Mebane, R. C.; Rybolt, T. R.; Bruce, C. D. The Correlation of Physical Properties of Organic Molecules with Computed Molecular Surface Areas. May, 688–693.
Schatz, P. F. Anniversaries: 1999. January, 8–11.
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Scheuer, P. J. Exploring the Ocean—Stating the Case for Chemistry. (POC) August, 1075–1079.
Schober, T.; Friedrich, J. Laboratory Application and Demonstration of Automotive Oxygen Sensors. December, 1697–1700.
Schreiber, K. G.; Lee, N. E. The Chemistry Outreach Program: Women Undergraduates Presenting Chemistry to Middle School Students. July, 917–918.
Schriesheim, A. Statement on Education: Education in Action. September, 1175.
Schwenz, R. W.; Bowen, C. W.; Wildeman, T. R. ACS National Meeting: Program for the Division of Chemical Education—Anaheim, CA, March 21–25, 1999. March, 301–306.
Schwenz, R. W.; Geiger, L. Photon-Initiated Hydrogen-Chlorine Reaction (re *J. Chem. Educ.* **1993**, 70, A208–A209). (LTE) April, 470–471.
Schwenz, R. W.; Polik, W. F. Analysis of the Infrared Spectra of Diatomic Molecules. September, 1302–1307.
Schwenz, R. W.; Wildeman, T. R.; Bowen, C. W. The Chemical Education Program, Anaheim ACS Meeting. June, 747–749.
Scorah, N.; Spivey, A. C.; Hanson, R.; Thorpe, S. J. Sharpless Asymmetric Dihydroxylation: Effect of Alkene Structure on Rates and Selectivity—An Undergraduate Organic Laboratory Group Experiment. May, 655–659.
Secco, E. A. Undergraduate Lectures on Infrared Spectroscopy in the Solid State. (ACL) March, 373–375.
Seed, A. H.; Kumar, V.; Bedell, J. Y. Technology: Catalyst for Enhancing Chemical Education for Pre-service Teachers. May, 713–717.
Senkbeil, E. G. Inquiry-Based Approach to a Carbohydrate Analysis Experiment. January, 80–81.
Seymour, P. Chromium Pollution: An Experiment Adapted for Freshman Engineering Students. July, 927–928.
Shabat, D.; Shulman, A.; Keinan, E.; Barbas, C. F. Teaching Catalytic Antibodies to Undergraduate Students: An Organic Chemistry Lab Experiment. July, 977–982.
Shachter, A. M.; Edgerly, J. S. Campus Environmental Resource Assessment Projects for Non-Science Majors. December, 1667–1670.
Shadwick, S. R.; Mohan, R. S. The Discovery-Oriented Approach to Organic Chemistry. 2. Selectivity in Alcohol Oxidation. An Exercise in ^{1}H NMR Spectroscopy for Sophomore Organic Laboratories. August, 1121–1122.
Shalhoub, G. M.; Long, G. R.; Sauder, D.; Stout, R. P.; Towns, M. H.; Zielinski, T. J. The Iodine Spectrum: A New Look at an Old Topic. June, 841–847.
Shavers, C. Same Sky, Different Horizon: The Role of Two-Year Colleges in Career Success. (2YC$_3$) April, 458.
Sheeran, D. Copper Content in Synthetic Copper Carbonate (re *J. Chem. Educ.* **1998**, *75*, 453–456). (LTE) October, 1339.
Shehadi, I. A.; Budil, D. E.; Khundkar, L. R.; Ondrechen, M. Introducing a Practice-Oriented Approach in the Physical Chemistry Instructional Laboratory. (NSF) May, 601–602.
Sherwood, D. W.; Kovac, J. D. Writing in Chemistry: An Effective Learning Tool. October, 1399–1403.
Shiber, J. G. Teaching Nontraditional Students. (2YC$_1$) December, 1615–1616.
Shiland, T. W. Constructivism: The Implications for Laboratory Work. (SSC) January, 107–109.
Shiue, H.; Sykes, P. A.; Walker, J. R.; Bateman, R. C. Determination of Myoglobin Stability by Visible Spectroscopy. September, 1283–1284.
Shubert, D.; Mitchell, M.; Herman, C. ChemKits: A Teacher-Training and Instrument-Sharing Project. October, 1409–1410.
Shulman, A.; Keinan, E.; Shabat, D.; Barbas, C. F. Teaching Catalytic Antibodies to Undergraduate Students: An Organic Chemistry Lab Experiment. July, 977–982.
Shultz, M. J. Why Equilibrium? Understanding Entropy of Mixing. October, 1391–1393.
Signorella, S.; García, S.; Sala, L. F. An Easy Experiment To Compare Factors Affecting the Reaction Rate of Structurally Related Compounds. (ACL) March, 405–408.
Siloac, E. Bird-in-the-Hand Method for Determination of Absolute Configuration in Fischer Projections. June, 798–799.
Silva, A. L.; Fernandes, C.; Wasterlain, O.; Costa, S.; Mendes, A. M. Cut-Out Molecular Models (re *J. Chem. Educ.* **1997**, *74*, 791–792). (LTE) January, 28–29.
Silva, C. R.; Simoni, J. A.; Collins, C. H.; Volpe, P. L. Ascorbic Acid as a Standard for Iodometric Titrations. An Analytical Experiment for General Chemistry. October, 1421–1422.
Silverman, L. P.; Barbaro, J. Illustrating Newman Projections by Using Overhead Transparencies. (OPD) May, 630.
Silverstein, T. P. The "Big Dog–Puppy Dog" Analogy for Resonance. (AA) February, 206–208.
Sime, J. T. Applications of Biocatalysis to Industrial Processes. (POC) December, 1658–1662.
Simoni, J. A.; Silva, C. R.; Collins, C. H.; Volpe, P. L. Ascorbic Acid as a Standard for Iodometric Titrations. An Analytical Experiment for General Chemistry. October, 1421–1422.
Singh, B. R. A First-Day Exercise on Relevance of Chemistry to Nonscience Majors Kindles Sustained Positive Student Response. September, 1219–1220.
Singh, M. M.; Szafran, Z.; Pike, R. M. Microscale Chemistry and Green Chemistry: Complementary Pedagogies. (ML) December, 1684–1686.
Sisak, M.; Aurian-Blajeni, B.; Sam, J. Sweet Chemistry. January, 91–92.
Skrabal, S. A.; Willey, J. D.; Avery, G. B.; Manock, J. J.; Stehman, C. F. Chemical Analysis of Soils: An Environmental Chemistry Laboratory for Undergraduate Science Majors. December, 1693–1694.
Slezak, J. Student-Inspired Undergraduate Research. (2YC$_3$) August, 1054–1055.
Smales, C. M.; Harding, D. R. A Novel Target Synthesis Laboratory for Students. November, 1558–1560.
Smith, A. L. Finding Chemical Information through Citation Index Searching. (CII) August, 1153–1157.
Smith, C. A.; Pecina, M. A. A Classroom Demonstration of Rayleigh Light Scattering in Optically Active and Inactive Systems. (TD) September, 1230–1233.
Smith, C. W.; Cooke, J. B.; Glinski, R. J. Survey of Binary Azeotropes as Lab Experiments with Attention to Cost, Safety, and the Environment. February, 227–228.
Smith, D. H. Grignard Reactions in "Wet" Ether. October, 1427–1428.
Smith, M. J.; Calvert, D.; Falcão, E. Equipment for a Low-Cost Study of the Naphthalene–Biphenyl Phase Diagram. (CET) May, 668–670.
So, C. T.; Lee, A. W.; Chan, C. L.; Wu, Y. K. Pericyclic Reactions: FMO Approach: Abstract of Issue 9904M. (JCE Software) May, 720.
Sodhi, G. S.; Kaur, J. Chemical Methods for Developing Latent Fingerprints. (JCE Activity) April, 488A–488B.
Sommer, A. J.; Stewart, S. A. Variable Path-Length Cells for Discovery-Based Investigation of the Beer–Lambert Law. March, 399–400.
Somne, S.; Chow, C. S.; Sotelo, B. L. Monitoring Hammerhead Ribozyme-Catalyzed Cleavage with a Fluorescein-Labeled Substrate: Effects of Magnesium Ions and Antibiotic Inhibitors. A Biochemistry Laboratory: Part 2. (CIB) May, 651–652.
Somne, S.; Chow, C. S. Synthesis and Purification of a Hammerhead Ribozyme and a Fluorescein-Labeled RNA Substrate. A Biochemistry Laboratory: Part 1. (CIB) May, 648–650.
Sotelo, B. L.; Chow, C. S.; Somne, S. Monitoring Hammerhead Ribozyme-Catalyzed Cleavage with a Fluorescein-Labeled Substrate: Effects of Magnesium Ions and Antibiotic Inhibitors. A Biochemistry Laboratory: Part 2. (CIB) May, 651–652.
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Spencer, J. N. ΔG, $\partial G/\partial \xi$, and the Physical Meaning of a Derivative. (LTE) September, 1188.
Spencer, J. N. New Directions in Teaching Chemistry: A Philosophical and Pedagogical Basis. April, 566–569.
Spencer, J. N.; Farrell, J. J.; Moog, R. S. A Guided Inquiry General Chemistry Course. April, 570–574.
Spivey, A. C.; Hanson, R.; Scorah, N.; Thorpe, S. J. Sharpless Asymmetric Dihydroxylation: Effect of Alkene Structure on Rates and Selectivity—An Undergraduate Organic Laboratory Group Experiment. May, 655–659.
Sponholtz, D. J.; Walters, M. A.; Tung, J.; BelBruno, J. J. A Simple and Efficient Ozone Generator. (CET) December, 1712–1713.
Spruill, N.; Gegner, J.; Plesniak, L. A. A Structure–Function Study of RecA: The Structural Basis for ATP Specificity in the Strand Exchange Reaction. November, 1562–1563.
St. Clair, J. M. *See* Poon, T. November, 1523–1524.
Stamberger, J. A.; McElveen, S. R.; Gavardinas, K.; Mohan, R. S. The Discovery-Oriented Approach to Organic Chemistry. 1. Nitration of Unknown Organic Compounds. An Exercise in ^{1}H NMR and ^{13}C NMR Spectroscopy for Sophomore Organic Laboratories. April, 535–536.

Stamper, J. E.; Fortman, J. J.; Rush, A. C. Variations on the "Whoosh" Bottle Alcohol Explosion Demonstration Including Safety Notes. (TD) August, 1092–1094.

Standard, J. M.; Clark, B. K. The Franck–Condon Principle and Condon Parabolas in a Physical Chemistry or Quantum Physics Course. October, 1363–1366.

Stanitski, C.; Dorey, R. C.; Draves, J. A. New Quant: A Quantitative Analysis Laboratory Curriculum Using an Analyzed Complex Matrix. (NSF) June, 752.

Starkey, R. Torsional Angle Driver (TorAD) System for HyperChem/Excel. (JCE Software) February, 288.

Starnes, S. D.; Birney, D. M. Parallel Combinatorial Esterification: A Simple Experiment for Use in the Second-Semester Organic Chemistry Laboratory. November, 1560–1561.

Steffel, M. J. Re-Blue-ing Blue Litmus Paper (re *J. Chem. Educ.* **1998**, *75*, 183). (LTE) March, 319–320.

Stehman, C. F.; Willey, J. D.; Avery, G. B.; Manock, J. J.; Skrabal, S. A. Chemical Analysis of Soils: An Environmental Chemistry Laboratory for Undergraduate Science Majors. December, 1693–1694.

Stepanov, V.; Krasnoperov, L. N. Introduction of Laser Photolysis—Transient Spectroscopy in an Undergraduate Physical Chemistry Laboratory: Kinetics of Ozone Formation. (NSF) September, 1182–1183.

Sternhell, S.; Field, L. D.; Wilton, H. V. Electrophilic Substitution in Naphthalene: Kinetic vs Thermodynamic Control. September, 1246–1247.

Stewart, S. A.; Sommer, A. J. Variable Path-Length Cells for Discovery-Based Investigation of the Beer–Lambert Law. March, 399–400.

Stokes, M. P. *See* Poon, T. November, 1523–1524.

Stolzberg, R. J. Discovering a Change in Equilibrium Constant with Change in Ionic Strength: An Empirical Laboratory Experiment for General Chemistry. May, 640–641.

Stolzberg, R. J. Optimizing Signal-to-Noise Ratio in Flame Atomic Absorption Spectrometry Using Sequential Simplex Optimization. (TICI) June, 834–838.

Story, T.; Han, J.; Han, G. A Spectrophotometric Method for Quantitative Determination of Bromine Using Tris(2-carboxyethyl)phosphine. July, 976–977.

Stout, R. P.; Long, G. R.; Sauder, D.; Shalhoub, G. M.; Towns, M. H.; Zielinski, T. J. The Iodine Spectrum: A New Look at an Old Topic. June, 841–847.

Strand, S. M.; Calimente, D. S.; Chang, S.; Lewis, D. E. The Preparation of a Fluorescent Dye: A Microscale TLC Experiment. (ML) January, 82–83.

Straus, E. Radioimmunoassay of Gastrointestinal Hormones. (Waters) June, 788–790.

Strauss, S. H. In Search of a Deep Understanding of $Cu^{2+/0}$ and $Zn^{2+/0}$ E^{o} Values. August, 1095–1098.

Strein, T. G.; Poechmann, J. L.; Prudenti, M. Micellular Electrokinetic Capillary Chromatography in the Undergraduate Curriculum: Separation and Identification of the Amino Acid Residues in an Unknown Dipeptide Using FMOC Derivatization. June, 820–825.

Studer-Martinez, S.; Alexander, C. W.; Asleson, G. L.; Beam, C. F.; Doig, M. T.; Heldrich, F. J. Gradualism: A Method for Primary Instruction on Spectroscopic Analysis in Introductory Organic Chemistry. (CCD) September, 1297–1298.

Subramaniam, B.; Middlecamp, C. H. What Is Feminist Pedagogy? Useful Ideas for Teaching Chemistry. April, 520–525.

Subramaniam, R.; Goh, N. K.; Chia, L. S. Word Juxtapoz: An Innovative Tool for Chemical Educatin n. April, 484–488.

Summerfield, J. H. An Acid–Base Chemistry Example: Conversion of Nicotine. (AA) October, 1397–1398.

Summerfield, J. H.; Beltrame, G. S.; Loeser, J. G. A Simple Model for Understanding Electron Correlation Methods. October, 1430–1438.

Sweeney, R.; Harvey, E. Modeling Stratospheric Ozone Kinetics, Part I: The Chapman Cycle: OzoneModelingPartI.mcd. (MCAD) September, 1309.

Sweeney, R.; Harvey, E. Modeling Stratospheric Ozone Kinetics, Part II: Addition of Hydrogen, Nitrogen and Chlorine: OzoneModelingPartII.mcd. (MCAD) September, 1310.

Sweeting, L. M. Ethics in Science for Undergraduate Students. March, 369–372.

Swim, J. An Elementary Outreach Program—Have Demo Will Travel. (CFK) May, 628–629.

Sykes, A. G.; Caple, G. Bridging Native American Culture and Chemistry: Gas Chromatography Experiments That Examine Native Foods. March, 392–395.

Sykes, P. A.; Shiue, H.; Walker, J. R.; Bateman, R. C. Determination of Myoglobin Stability by Visible Spectroscopy. September, 1283–1284.

Szafran, Z.; Singh, M. M.; Pike, R. M. Microscale Chemistry and Green Chemistry: Complementary Pedagogies. (ML) December, 1684–1686.

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Analysis of Semivolatile Organic Compounds in Fuels Using Gas Chromatography–Mass Spectrometry. (TICI) Nahir, T. M. December, 1695–1696.

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Interdisciplinary Learning with Computational Chemistry: A Collaboration between Chemistry and Geology. Lipkowitz, K. B.; Jalaie, M.; Robertson, D.; Barth, A. May, 684–688.
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Gold

Gold Chemistry: The Aurophilic Attraction. Bardají, M.; Laguna, A. February, 201–203.
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Chemistry of the Heaviest Elements—One Atom at a Time. (Viewpoints) Hoffman, D. C.; Lee, D. M. March, 331–347.

Chemistry Workshop for Secondary School Science Teachers: Addressing Multiple Laboratory Issues. Carpenter, S. R.; Hizer, T. J.; Baker, J. P. March, 387–388.
Culture of Chemistry: A Graduate Course. (Commentary) Bunnett, J. F. August, 1058–1061.
Examination of the Occupational Health and Safety Initiatives Available within the Chemistry Departments of Australian Universities. (ST) Goodwin, V.; Cobbin, D.; Logan, P. September, 1226–1229.
Idaho K–8 Teacher Networking Project: Using the Internet To Improve K–8 Science Instruction. (TECH) Gammon, S. D.; Hutchison, S. G.; Waller, B. E.; Tolbert, R. W. May, 708–713.
Mean Field Theory of Phase Transitions. Honig, J. M. June, 848–853.
Pyroelectric Effect of a Sucrose Monocrystal. (TD) Najdoski, M.; Pejov, L. J.; Petruševski, V. M. March, 360–361.
Why Should Anyone Become a Scientist? The Ideals of Science and Its Importance. (Commentary) Li, L. January, 20–21.

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Comparison of Stretching Force Constants in Symmetry Coordinates between T_d and C_{3v} Point Groups. Julian, M. M. May, 679–683.
Improved Interpretation of the Woodward–Hoffmann Rules. Patterson, R. T. July, 1002–1007.
Interactive Dry Lab Introduction to Vibrational Raman Spectroscopy Using Carbon Tetrachloride. Fetterolf, M. L.; Goldsmith, J. G. September, 1276–1277.
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Helium

Demonstration of Ideal Gas Principles Using a Football. (TD) Bare, W. D.; Andrews, L. May, 622–624.
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Contests Revisited. (FPI) Williams, K. R. November, 1476.
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Don't Forget the Units! (FPI) Williams, K. R. March, 313–314.
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Origin of $E = mc^2$: The Keys to Heaven Also Open the Gates of Hell. (ROJ) Klotz, I. M. April, 459.
Piltdown Man: Combining the Instruction of Scientific Ethics and Qualitative Analysis. Vincent, J. B. November, 1501–1502.
Poetry. (FPI) Williams, K. R. May, 599.
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Humor/Puzzles

Amino Acid Wordsearch. (SSC) Helser, T. L. April, 494–495.
Contest: What Is Wrong Here? (FPI) Williams, K. R. April, 460.
Periodic Puns for the Classroom. Vorndam, P. E. April, 492–494.
Puzzles in Chemistry and Logic. (RSA) Castro-Acuña, C. M.; Dominguez-Danache, R. E.; Kelter, P. B.; Grundman, J. April, 496–498.
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Using Games to Teach Chemistry. 1. The Old Prof Card Game. Granath, P. L.; Russell, J. V. April, 485–486.
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Winter's Entertainment. (LTE) Helser, T. L. April, 468.
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Annual James L. Waters Symposium at Pittcon—Preamble. (Waters) Coetzee, J. F. June, 767.
Development and Proliferation of Radioimmunoassay Technology. (Waters) Yalow, R. S. June, 767–768.
Homogeneous Immunoassays: Historical Perspective and Future Promise. (Waters) Ullman, E. F. June, 781–788.
Immunoassay, DNA Analysis, and Other Ligand Binding Assay Techniques: From Electropherograms to Multiplexed, Ultrasensitive Microarrays on a Chip. (Waters) Ekins, R. P. June, 769–780.
Impact of Business on Research in the Rapidly Maturing Diagnostics Industry. (Waters) Weber, A. June, 790–792.
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Building the Interest of High School Students for Science—A PACT Ambassador Program To Investigate Soap Manufacturing and Industrial Chemistry. Lynch, M.; Geary, N.; Hagaman, K.; Munson, A.; Sabo, M. February, 191–195.
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Innovations for an Industry-Based Curriculum: The I.O.N.S. Concept. (2YC.) Kenkel, J.; Hemmerling, B.; Kelter, P. B. July, 889–891.
News from Online: Industrial Chemicals and Polymers. (ROJ) Judd, C. S. February, 152–153.
Properties of Zeolite A Obtained from Powdered Laundry Detergent (re *J. Chem. Educ.* **1997**, *74*, 569–570). (LTE) Davis, P. J.; van Bekkum, H.; Coker, E. N. April, 469–470.
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Catalytic Oxidation of Sulfur Dioxide by Activated Carbon: A Physical Chemistry Experiment. Raymundo-Piñero, E.; Cazorla-Amorós, D.; Morallón, E. July, 958–961.
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Why Gold and Copper Are Colored but Silver Is Not. Guerrero, A. H.; Fasoli, H. J.; Costa, J. L. February, 200.

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Inquiry-Based/Discovery Method

Alka Seltzer Poppers: An Interactive Exploration. (RSA) Sarquis, A. M.; Woodward, L. M. March, 385–386.
Can Any Good Thing Come out of Nazareth? (John 1:46): 1999 George C. Pimentel Award, sponsored by Union Carbide Corporation. Orna, M. V. September, 1169–1173.
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Incorporation of FT-NMR throughout the Chemistry Curriculum. (NSF) Davis, D. S.; Moore, D. E. December, 1617–1618.
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Review of Laboratory Instruction Styles. (CER) Domin, D. S. April, 543–547.
Using Data Pooling to Measure the Density of Sodas: An Introductory Discovery Experiment. Herrick, R. S.; Nestor, L. P.; Benedetto, D. A. October, 1411–1413.
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Instrumental Methods

Analysis of Semivolatile Organic Compounds in Fuels Using Gas Chromatography–Mass Spectrometry. (TICI) Nahir, T. M. December, 1695–1696.
Analysis of Soft Drinks Using Nuclear Magnetic Resonance Spectroscopy: A Mentorship. Wilson, A.; Myers, C.; Crull, G.; Curtis, M.; Pasciak, P. M. October, 1414–1416.
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ChemKits: A Teacher-Training and Instrument-Sharing Project. Mitchell, M.; Shubert, D.; Herman, C. October, 1409–1410.
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Interactive Dry Lab Introduction to Vibrational Raman Spectroscopy Using Carbon Tetrachloride. Fetterolf, M. L.; Goldsmith, J. G. September, 1276–1277.
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Microscale Synthesis and ^{1}H NMR Analysis of Tetraphenylporphyrins. (ML) Falvo, R. E.; Mink, L. M.; Marsh, D. F. February, 237–239.
New Concept for pH-Potential Calculations. Cheng, K. L. July, 1029–1030.
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Project-Oriented Biochemistry Laboratory Course. Craig, P. A. August, 1130–1135.
Pungency Quantitation of Hot Pepper Sauces Using HPLC. Betts, T. A. February, 240–244.
Quantitative Determination of PAHs in Diesel Engine Exhausts by GC–MS. Fleurat-Lessard, P.; Pointet, K.; Renou-Gonnord, M. July, 962–965.
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Simple Device to Demonstrate the Principles of Fluorometry. (CET) Delorenzi, N. J.; Araujo, C.; Palazzolo, G.; Gatti, C. A. September, 1265–1266.
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Student Construction of a Gel-Filled Ag/AgCl Reference Electrode for Use in a Potentiometric Titration. Thomas, J. M. January, 97–98.
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Chemical Bonding as a Superposition Phenomenon. Weinhold, F. A. August, 1141–1146.
Comparison of Stretching Force Constants in Symmetry Coordinates between T_d and C_{3v} Point Groups. Julian, M. M. May, 679–683.
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Analysis of Soft Drinks Using Nuclear Magnetic Resonance Spectroscopy: A Mentorship. Wilson, A.; Myers, C.; Crull, G.; Curtis, M.; Pasciak, P. M. October, 1414–1416.

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Functional Group Analysis. (RSA) Malherbe, J. S.; Meyer, C. J. January, 56–57.
Lab Safety "Scavenger Hunt". (ST) Helser, T. L. January, 68.
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Calculation of Standard Enthalpies of Formation of Alkanes: Illustrating Molecular Mechanics and Spreadsheet Programs. Hawk, E. L. February, 278–283.
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Bridging Native American Culture and Chemistry: Gas Chromatography Experiments That Examine Native Foods. Sykes, A. G.; Caple, G. March, 392–395.
Identifying Softwoods and Hardwoods by Infrared Spectroscopy. Barker, B.; Owen, N. L. December, 1706–1709.
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Pictorial Approach to Molecular Orbital Bonding in Polymers: Non-Mathematical but Honest. Miller, G. J.; Verkade, J. G. March, 428–433.
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Undergraduate Experiment in Polyester (PET) Synthesis. Cammidge, A. N. February, 236–237.

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Active Learning in Upper-Level Chemistry Courses: A Biochemistry Example. Hodges, L. C. March, 376–377.
Alka Seltzer Poppers: An Interactive Exploration. (RSA) Sarquis, A. M.; Woodward, L. M. March, 385–386.
Arrhenius Law and Storage of Food in a Freezer. (RSA) Leenson, I. A. April, 504–505.
Authentic Research within the Grasp of High School Students. (2AP) Hapkiewicz, A. September, 1212–1215.
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Motivating Students in Sophomore Organic Chemistry by Examining Nature's Way—Why Are Vitamins E and C Such Good Antioxidants? Beaver, B. D. August, 1108–1112.
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Puzzles in Chemistry and Logic. (RSA) Castro-Acuña, C. M.; Dominguez-Danache, R. E.; Kelter, P. B.; Grundman, J. April, 496–498.
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Safety Wordsearch. (ST) Helser, T. L. April, 495.
Solving the Mathematics of a Kinetic and Regiochemical Problem: The Dehydration Reaction of a cis–trans Mixture of 2-Methylcycloalkanols. (RSA) Cawley, J. J. January, 58–59.
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Is It Real Gold? (AA) Harris, H. H. February, 198–199.

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Thermochromism in Commercial Products. White, M. A.; LeBlanc, M. September, 1201–1205.

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Flame Tests Using Improvised Alcohol Burners. (TD) Dragojlovic, V. July, 929–930.

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Spreadsheet Techniques for Evaluating the Solubility of Sparingly Soluble Salts of Weak Acids. (CBB) Guiñón, J. L.; García-Antón, J.; Pérez-Herranz, V. August, 1157–1160.

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Accurate and Efficient Perturbation Theory by Matrix Inversion. Reed, B. C. October, 1444–1447.

Chemical Bonding as a Superposition Phenomenon. Weinhold, F. A. August, 1141–1146.

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Classroom Demonstration of Rayleigh Light Scattering in Optically Active and Inactive Systems. (TD) Pecina, M. A.; Smith, C. A. September, 1230–1233.

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